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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,455	02/07/2002	Ikuo Kawamoto	020587	1845
38834	7590	12/10/2004	EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036			CHOWDHURY, TARIFUR RASHID	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 12/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/072,455

Applicant(s)

KAWAMOTO ET AL.

Examiner

Tarifur R Chowdhury

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 October 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/21/04 has been entered.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

**4. Claims 1-8, 11-16, 19-25 and 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kameyama et al., (Kameyama), USPAT 5,999,243 (provided by the applicant) in view of Trapani et al., (Trapani), US 2003/0002154.**

5. Kameyama discloses and shows in Fig. 6, a liquid crystal display including a polarizing element wherein the polarizing element comprising a circularly polarized light separator (1) and quarter wave plate (3) (either only the circularly polarized –light separator or the combination of the light-separator and the quarter wave plate being applicant's reflective polarizing plate) for separating incident light into reflected light and transmitted light both of which are composed of polarized light (col. 5, line 59 – col. 6, line 7; col. 12, line 6-56). Kameyama also discloses the use of pressure-sensitive adhesive to laminate multiple layers (col. 13, lines 28-47).

Kameyama differs from the instant invention because he does not explicitly disclose that the pressure-sensitive adhesive layer has diffusive properties.

Trapani discloses polarizers coated with optically functional layers. Trapani also discloses that a diffusion coating such as a diffuse pressure-sensitive adhesive is advantageous since it increases the viewing angle of the liquid crystal display (page 4, paragraph 0052).

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Trapani is evidence that ordinary workers in the art would find a reason, suggestion or motivation to use a light-diffusion pressure-sensitive adhesive layer.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the display of Kameyama by providing a light-diffusion pressure-sensitive adhesive on the reflecting polarizing plate so that the viewing angle of the display is increased, as per the teachings of Trapani.

Further, the method of manufacturing the polarizing element would have been obvious in view of the device.

Accordingly, claims 1, 2, 6, 7, 11-15, 20 and 25 would have been obvious.

As to claims 31-34, since Trapani disclose the advantage of using a light-diffusion pressure sensitive adhesive layer and is not limited to the use of only one light-diffusion pressure sensitive adhesive layer it would have been obvious to one of ordinary skill in the art to use plurality of light-diffusion pressure sensitive adhesive layers for several advantages such as to double the desired output. Further, it should also be noted that the specification of the instant application does not recite any criticality of using two or more light-diffusion pressure sensitive adhesive layers.

As to claims 3, 4, 21 and 22, Kameyama discloses that the circularly polarized light separation plate (1) comprises a cholesteric liquid crystal polymer which has undergone Grandjean orientation (col. 5, lines 59-61).

As to claims 5 and 23, Kameyama also discloses that the cholesteric liquid crystal layer can be a superimposed structure of cholesteric liquid crystal layers different from each other in a helical pitch of Grandjean orientation (col. 7, line 65- col. 8, line 3).

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As to claims 8 and 16, Trapani discloses that the light-diffusion pressure-sensitive adhesive layer is made of a polymer containing glass beads (uncolored transparent material).

As to claims 19 and 24, Kameyama discloses that the polarizer of the invention is not limited to circularly-polarized light separator but also linearly-polarized light separator (col. 5, lines 51-55).

**6. Claims 9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kameyama and Trapani as applied to claims 1-8, 11-16 and 19-25 above and further in view of Mikura et al., (Mikura), USPAT 5,880,800.**

7. Kameyama in view of Trapani discloses that the pressure-sensitive adhesive is made of a polymer but do not explicitly disclose the polymer is an acrylic polymer having a weight average molecular weight of at least 100,000.

Mikura discloses optical film having pressure sensitive adhesive layers wherein the pressure-sensitive adhesive layers are made of polymers wherein the polymer is an acrylic polymer having a weight average molecular weight of at least 300,000 (col. 1, line 5; col. 5, line 55 – col. 6, line 2). Mikura also discloses that such an optical film is excellent in heat resistance and moisture resistance (col. 1, lines 6-7).

Mikura is evidence that ordinary workers in the art would find a reason, suggestion or motivation to form pressure-sensitive adhesive layers using acrylic polymer having a weight average molecular weight of at least 300,000.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the pressure-sensitive adhesive layer of Kameyama when modified by Trapani such by using an acrylic polymer having a weight average molecular weight of at least 300,000 so that an optical film with excellent heat resistance and moisture resistance is obtained, as per the teachings of Mikura.

Accordingly, claims 9 and 17 would have been obvious.

**8. Claims 10 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kameyama in view of Trapani as applied to claims 1-8, 11-16 and 19-25 above and further in view of Goetz et al., (Goetz), USPAT 6,288,172.**

9. Kameyama in view of Trapani discloses that the light-diffusion pressure-sensitive adhesive layer is made of a polymer containing uncolored transparent particles but does not explicitly disclose that the particles have an average particle diameter ranging from 0.5  $\mu\text{m}$  to 20  $\mu\text{m}$  are selected from inorganic particles and organic particles.

Goetz discloses light diffusing adhesive that is made of organic polymer particles having an average diameter of about 0.5  $\mu\text{m}$  to about 30  $\mu\text{m}$  (overlaps the claimed range) (col. 12, lines 11-15). Goetz also discloses that such a light diffusion adhesive provides excellent light diffusion properties with low back scattering (col. 1, lines 12-14).

Goetz is evidence that ordinary workers in the art would find a reason, suggestion or motivation to use light diffusion adhesive that has particles with an

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average particle diameter ranging from 0.5  $\mu\text{m}$  to 20  $\mu\text{m}$  are selected from inorganic particles and organic particles.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the light diffusion adhesive of Kameyama when modified by Trapani by using organic particles having an average particle diameter ranging from 0.5  $\mu\text{m}$  to 30  $\mu\text{m}$  so that a light diffusion adhesive with excellent light diffusion properties with low back scattering is obtained, as per the teachings of Goetz.

### ***Response to Amendment***

10. After further consideration the examiner's position is that the declaration filed on 10/10/2003 under 37 CFR 1.131 is **not sufficient** to overcome the Trapani reference.

The court case (In re Costello and McClean, 219 USPQ 389) gave a decision regarding the question whether applicants are entitled to rely on an earlier application, abandoned prior to the effective date of a reference, as a constructive reduction to practice to overcome that reference, where applicants later filed a substantially identical application which is not entitled under section 120 to the filing date of the abandoned application due to lack of copendency. The court cites that Rule 131 requires proof of either "reduction to practice prior to the effective date of the reference, or conception of the invention prior to the effective date of the reference coupled with due diligence from the date to a subsequent reduction to practice or to the filing of the application. The



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court further goes on mentioning that while the filing of the original application theoretically constituted a constructive reduction to practice at the time, the subsequent abandonment of that application also resulted in an abandonment of the benefit of that filing as a constructive reduction to practice. The filing of the original application, is however, as held by the court is evidence of conception of the invention. Applicant's were able to reduce the invention to writing. That writing therefore constitutes documentary evidence that applicants had conceived of the invention as of the filing date. As was found, however, applicant did not establish diligence in reducing the invention to practice and thus the evidence was not sufficient to antedate the reference in concern.

The facts in the instant application are similar to those in the court case briefly discussed above. In the instant case applicant is trying to antedate the Trapani reference which has an effective filing date of July 2, 2001 by filing a declaration under 37 CFR 1.131 that applicant conceived of the invention disclosed and claimed in the instant application prior to December 15, 1999 in Japan. Applicant further declares that the invention claimed was described in APPLICANT'S Japanese Application No. 11-355591 which was filed in Japan on December 15, 1999 and published on June 29, 2001 under No. 2001-174633 and thus the invention was reduced to practice by the filing date of the Japanese Application No. 11-355591. However, to claim a benefit under 35 USC 119, the instant application must be filed within one year of filing of the priority document in the US or WTO country. Since applicant filed the Japanese Application No. 11-355591 in December 15, 1999 and the instant application was filed

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on 02/07/02, which shows a gap of about 26 months, applicant is not entitled to the benefit of the priority under 35 U.S.C 119 based on the Japanese Application.

Accordingly, while the filing of the Japanese Application constituted a constructive reduction to practice at the time, the failure to obtain the benefit of the priority also resulted failure to obtain the benefit of that filing as a constructive reduction to practice.

The filing of the Japanese Application is, however, evidence of conception of the invention. Applicant's were able to reduce the invention to writing. That writing therefore constitutes documentary evidence that applicants had conceived of the invention as of the filing date. However, as was found in the similar situation discussed above, applicant did not establish diligence in reducing the invention to practice and thus the evidence is not sufficient to disqualify Trapani as prior art.

### ***Response to Arguments***

11. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

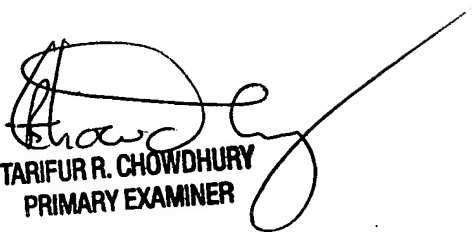
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC  
December 07, 2004

  
TARIFUR R. CHOWDHURY  
PRIMARY EXAMINER